

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09138272 A**(43) Date of publication of application: **27.05.97**

(51) Int. Cl.

**G01S 13/10**  
**G01S 13/95**(21) Application number: **07298368**(71) Applicant: **TOSHIBA CORP**(22) Date of filing: **16.11.95**(72) Inventor: **MIZUNO TOMOHIRO**(54) **RADAR RAINFALL MEASURING APPARATUS**

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(57) Abstract:

**PROBLEM TO BE SOLVED:** To obtain a radar rainfall measuring apparatus in which the measuring accuracy of rainfall information is not lowered even when a water film is formed on the surface of a radome.

**SOLUTION:** An antenna 102 which is covered with a radome 101 radiates, to a space, transmission pulses generated by a transmission-reception part 300, and an echo due to a waterdrop or the like in the air by the transmission pulses is received. The received echo is amplified and detected by the transmission-reception part 300 so as to be input to a signal processing part 400 as reception data. Then, an A/D conversion operation, a clutter removal operation and a mesh averaging processing operation are executed to the reception data by the signal processing part 400, and its attenuation due to a water film formed on the radome 101 is corrected by an attenuation correction circuit 404 on the basis of ground rainfall data which is measured by a ground rain gage 500. Then, a rainfall intensity is found by a rainfall-intensity computing circuit 405 on the basis of an attenuation correction result.

